

**SPAWAR**



**Systems Center  
Charleston**

# Technology Solutions for the 21st Century

## *Command Brief*

31 March 2002

CAPT Nancy L. Deitch,  
Commanding Officer

Mr. Don Bailey,  
Executive Director



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# Our Mission

**We enable knowledge superiority to the warfighter through the development, acquisition, and life cycle support of effective, capable and integrated C4ISR, IT, and Space systems.**



*Excellence Through Teamwork*



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# Restructuring: East Coast Naval Electronic Engineering Activities

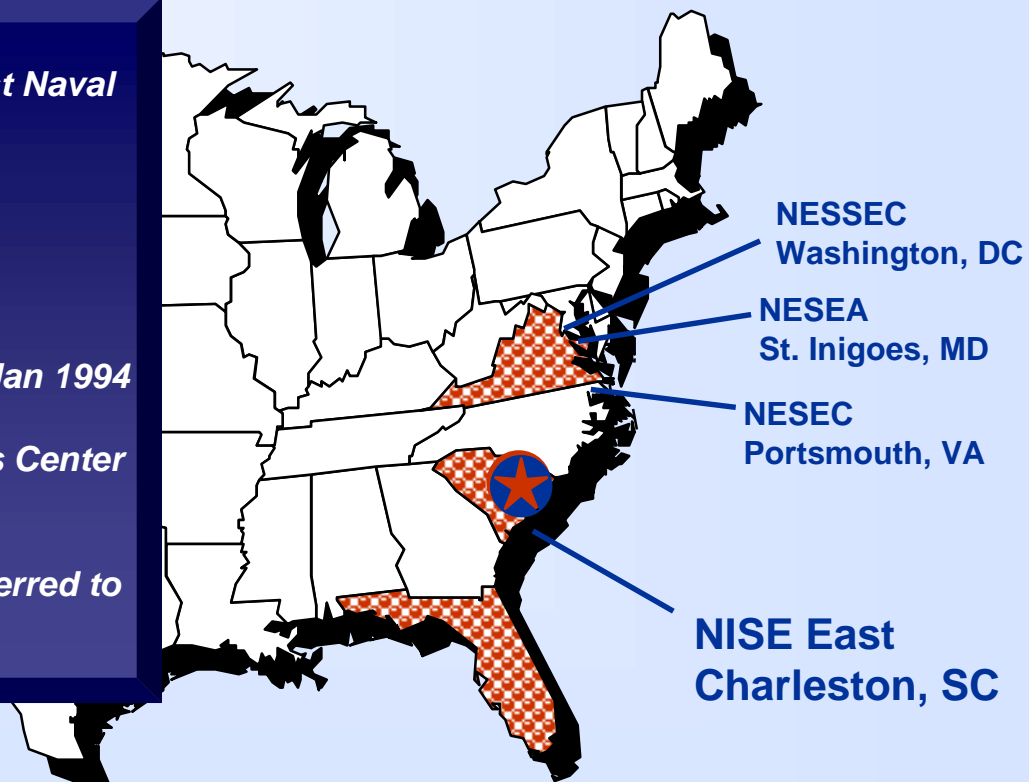
***BRAC 1993: Consolidated the East Coast Naval Electronic Engineering Activities***

- NESSEC Washington, DC
- NESEA St. Inigoes, MD
- NESEC Portsmouth, VA
- NESEC Charleston, SC

***Established as NISE East, Charleston -- Jan 1994***

***NISE East renamed as SPAWAR Systems Center (SSC) Charleston -- Oct 1997***

***NCTC NWCF East Coast Elements transferred to SSC Charleston -- Feb 2000***

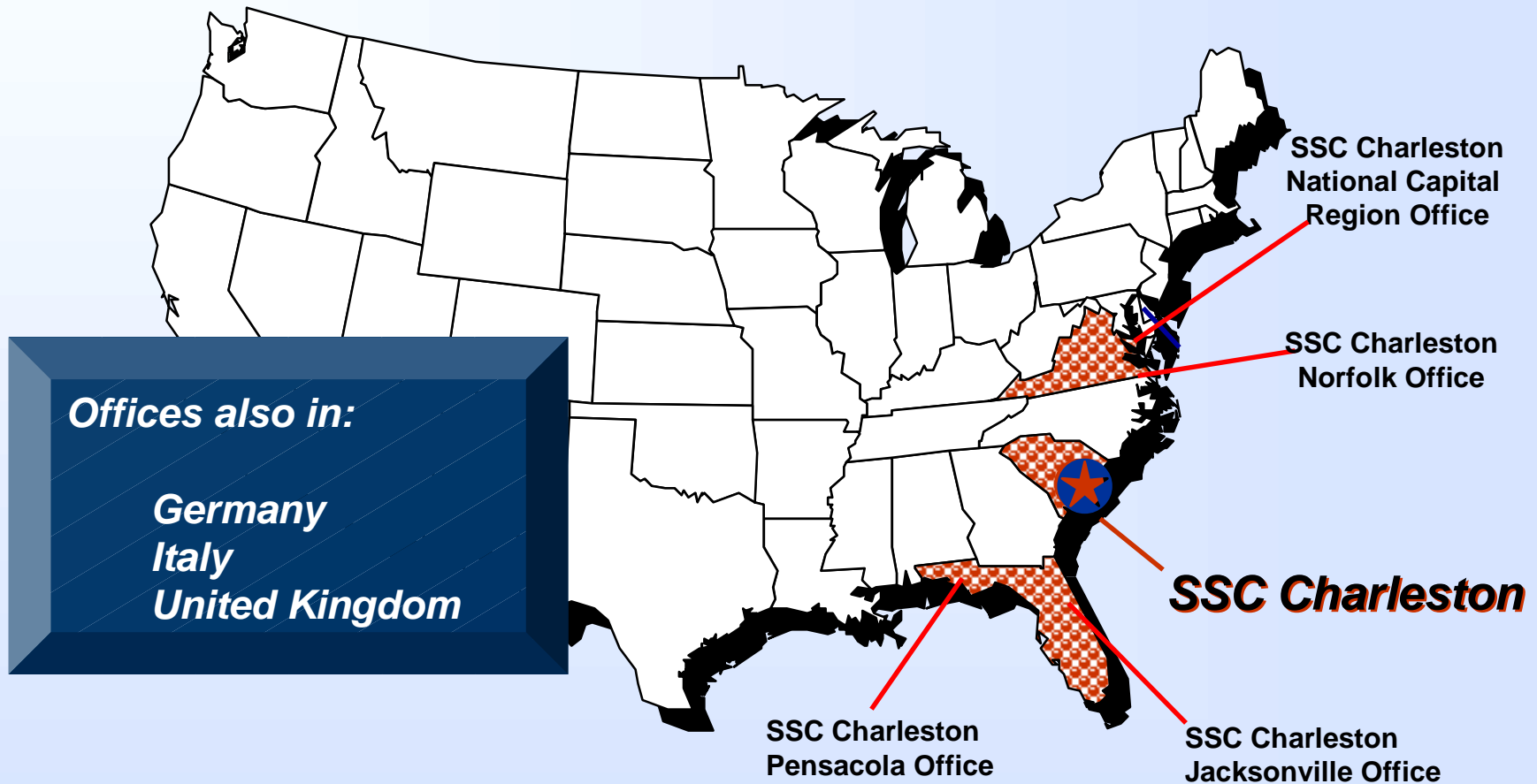


# SPAWAR



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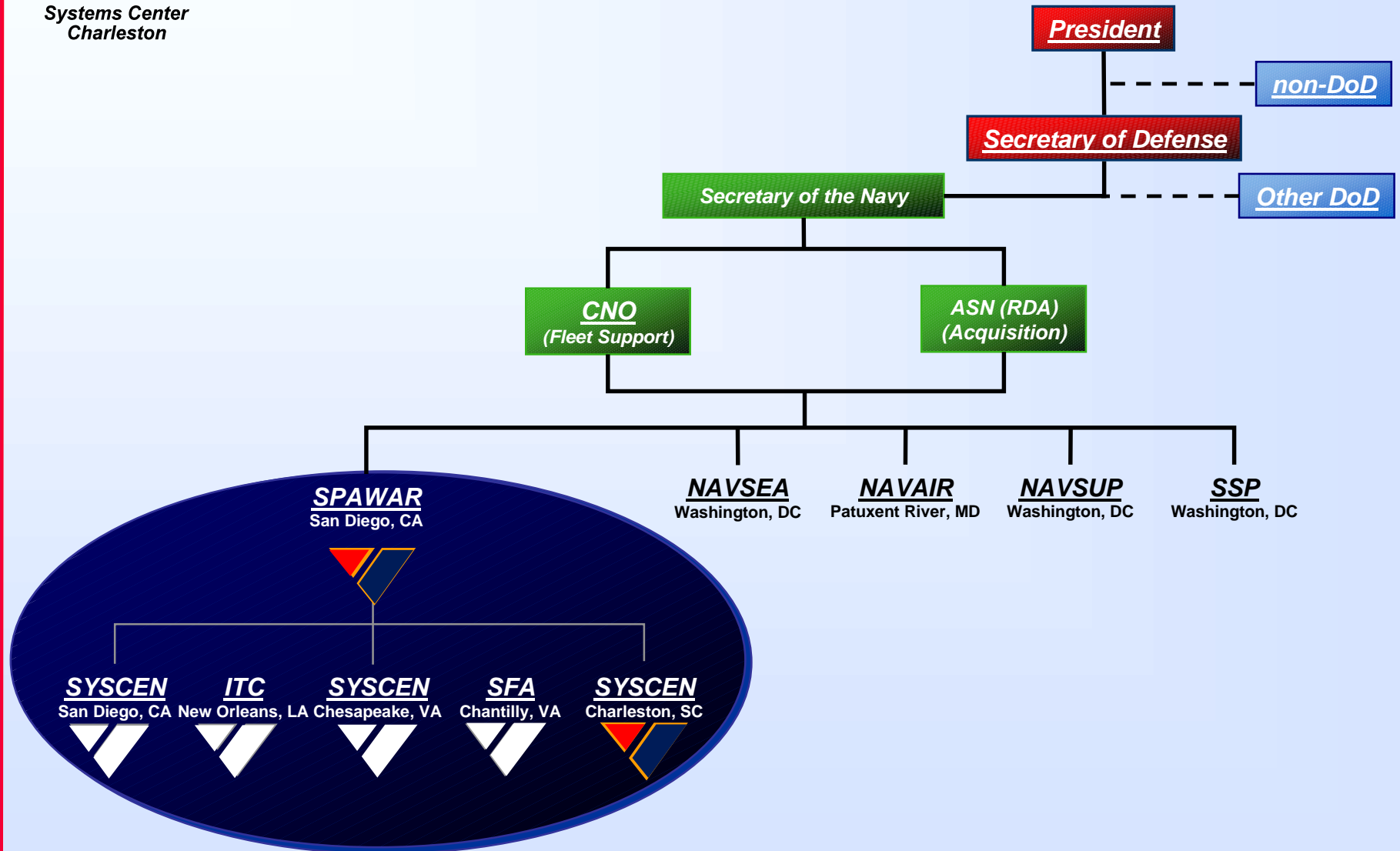
## Major Locations



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# Chain of Command





# Our Expertise

- ☐ ***Build Ships***
- ☐ ***Build Planes***
- ☒ ***Build “The Network” and its C<sup>4</sup>ISR Systems***

- ***Air Traffic Control***
- ***Command & Control***
- ***Communications***
- ***Cryptologic & Intelligence***
- ***Image processing***
- ***Meteorology***
- ***Navigation***
- ***Physical & Computer Security***
- ***Sensors***
- ***Video teleconferencing***
- ***Ship Construction, Navy (SCN)***
- ***Modeling & Simulation***





# Technical Departments

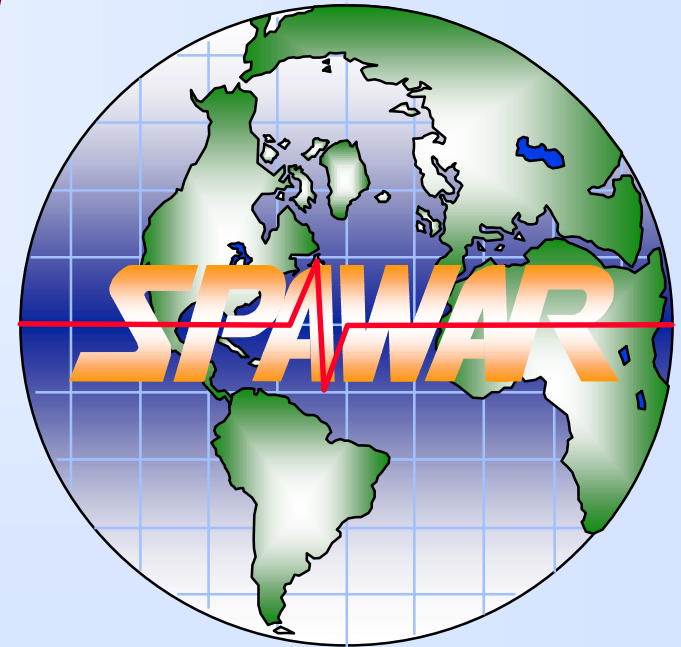
*Our Engineering Expertise is Aligned  
into Four Technical Departments*

**30** *Surveillance and Systems Engineering*

**50** *Communication Systems*

**60** *Command and Control Systems*

**70** *Intelligence & Information Warfare  
Systems Engineering*





# Surveillance and Systems Engineering

*This Department Provides Mission-Essential Services  
from Concept to Post-Deployment Support for Diverse  
Projects & Customers*



- Air Traffic Control (ATC), Radar, Radio Communications & Data Display Systems
- Navigation Systems & C<sup>4</sup>ISR Installations
- Radiation Detection, Indication & Computation (RADIAC) Program
- Integrated Undersea Surveillance System (IUSS) Operations Support
- Meteorological Sensor & Display Systems
- United States Antarctic Program Support Services
- Environmental Testing
- Modeling & Simulation
- SCN





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# Communication Systems

***This Department Engineers, Integrates, Produces and Delivers State-of-the-Art Communications Products in Support of the Warfighter and other Users***



- Telecommunications & Switched Networks
- Integrated Networks & Network Management Systems
- Network Applications, Services, & Operations
- Tactical & Expeditionary Communications
- Satellite Communication Systems
- Wireless Communication Systems
- Advanced Communications Capabilities



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# Command and Control Systems

*This Department designs, develops, acquires, integrates, tests, deploys, supports and upgrades command and control information systems employed by the USN, USMC and Joint Forces, as well as maintains electronic systems*



- Global Command and Control System (GCCS)
- GCCS-Maritime
- Mobile, Afloat, and Fixed sites
- Tactical Data Links
- Tactical Decision Aids & Decision Support Systems
- Digital and Analog Display Systems
- Mechanical Fabrication, Engineering Support & Calibration

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# Intelligence and Information Warfare Systems

*This Department Provides Systems Integration Engineering, Installation, Software & Logistics Support for Shore, Surface & Submarine Intelligence and Information Systems Worldwide*

- Exploitation Systems
- Information Assurance
- Intelligence Systems
- Force and Infrastructure Protection
- Information Warfare Systems
- Network Engineering and Operations
- Computer Information Systems
- Systems Engineering/Program Management



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# SPAWAR C4ISR Integration Centers

**SSC Charleston**

**East Coast C4ISR Hub**

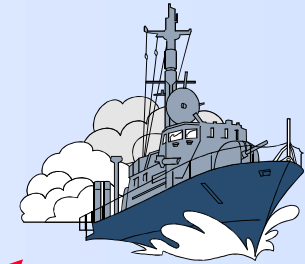


**SSC Chesapeake**



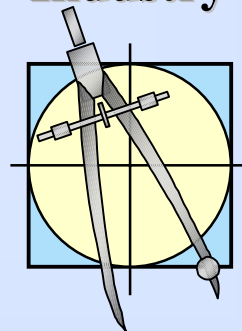
**SSC San Diego**

**West Coast C4ISR Hub**



**Fleet**

**Industry**



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# Funding Sources Comparison By Customer

31 March 2002

FY01: \$1.7 Billion

FY02: \$1.7 Billion *(To Date)*

<b>SPAWAR</b>	<b>48%</b>	<b>SPAWAR HQ</b>	<b>47%</b>
		<b>SSC San Diego</b>	<b>1%</b>
<b>Other NAVY</b>	<b>31%</b>	<b>NAVSEA</b>	<b>6%</b>
		<b>NAVAIR</b>	<b>3%</b>
		<b>Marine Corps</b>	<b>4%</b>
		<b>Other Navy</b>	<b>18%</b>
<b>Other DOD</b>	<b>15%</b>	<b>Air Force</b>	<b>2%</b>
		<b>Army</b>	<b>2%</b>
		<b>Foreign Military Sales</b>	<b>2%</b>
		<b>Other DOD</b>	<b>9%</b>
<b>Other Federal</b>	<b>6%</b>	<b>Other Federal</b>	<b>6%</b>

*% are approximate*



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# **Non-DoD Sponsors/Customers**

- **Other Federal Government Agencies**
  - Federal Aviation Administration
  - National Science Foundation
  - Department of Justice (FBI, BOP, INS/US Border Patrol)
  - Department of Treasury
    - U.S. Secret Service
    - U.S. Mint
    - U.S. Coast Guard
    - U.S. Customs Service
  - Department of Agriculture
  - Department of Health and Human Services (CDC)
  - Department of State
  - Architect of the Capitol
  - Federal Emergency Management Agency
- **Foreign Military Sales (FMS)**





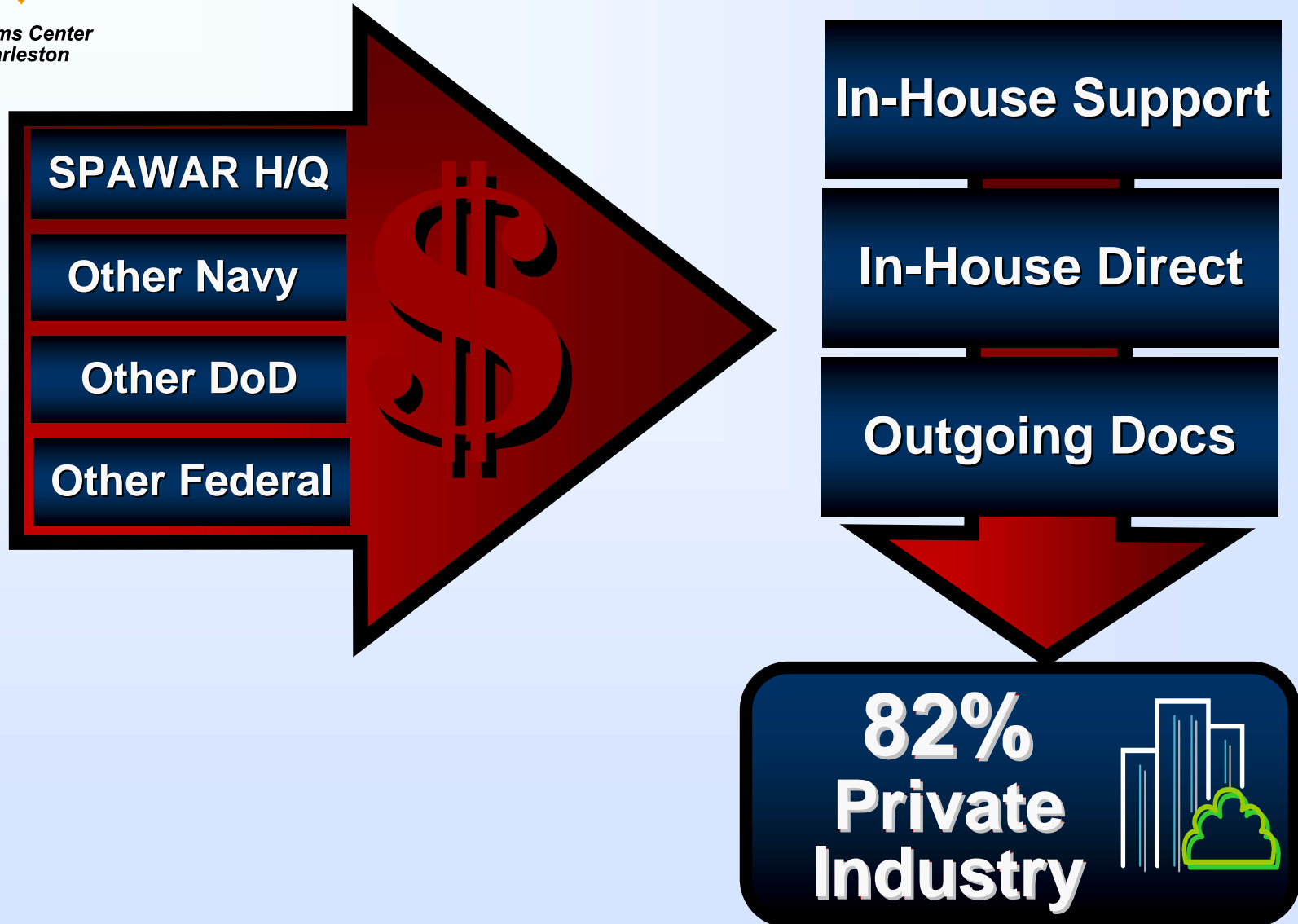
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# Our Business Methods

- We are a Navy Working Capital Fund organization
- We operate on a break-even (nonprofit) basis
- We receive “no direct appropriated funds”
- Like the private sector, we earn our money from our customers
  - Customers pay a “burdened” rate for our labor
  - Burdened rate includes overhead to pay for business operations
- Must control costs to keep rates low and stay competitive
- Have to market our services, satisfy our customers, and keep an eye on the bottom line



## FY-01 Funding Flow





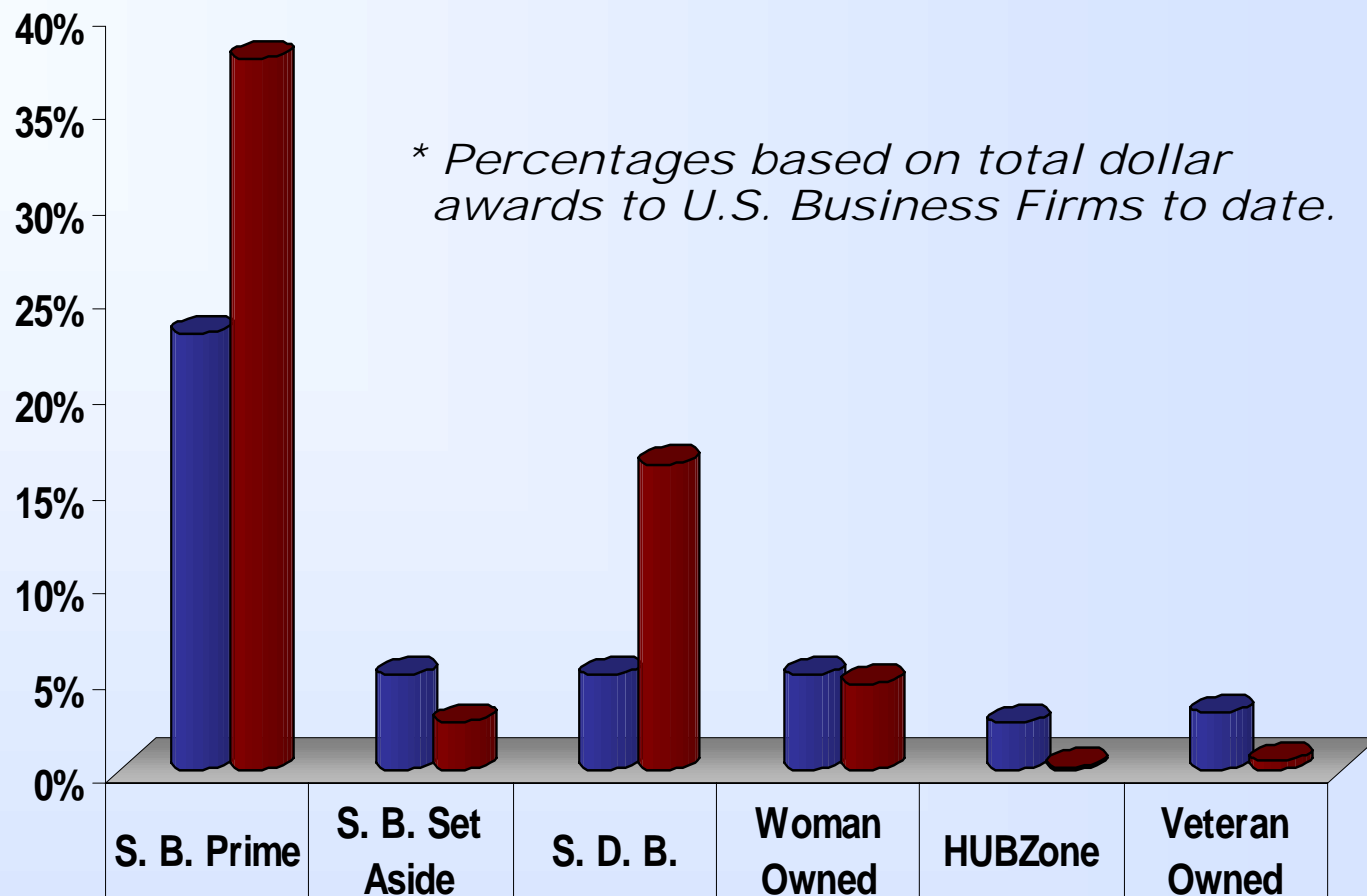
# Contracting Capability

- **Unlimited Contracting Authority**
- **Use Full Spectrum of Contract Types and Techniques**
  - **CPFF/CPAF/T&M**
  - **Best Value**
  - **Multiple Award**
- **80 Contract Specialists (1102 Series)**
- **Active Contracts are valued in excess of \$3B**



# FY 02\* Small Business Results

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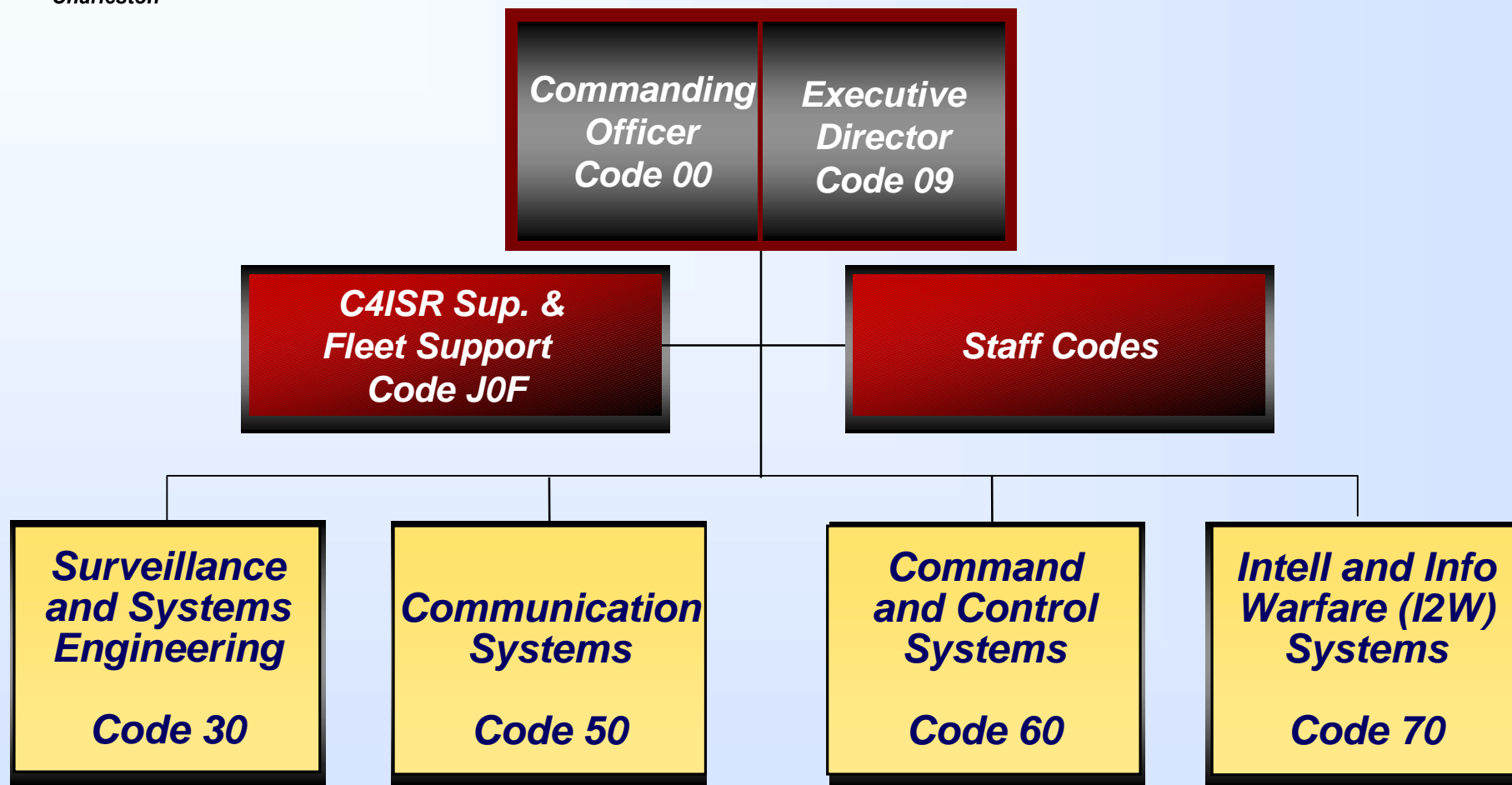


■ DoN Goal	23%	5%	5%	5%	2.5%	3%
■ SSC Charleston Achievement	37.5%	2.5%	16.1%	4.6%	0.2%	0.5%



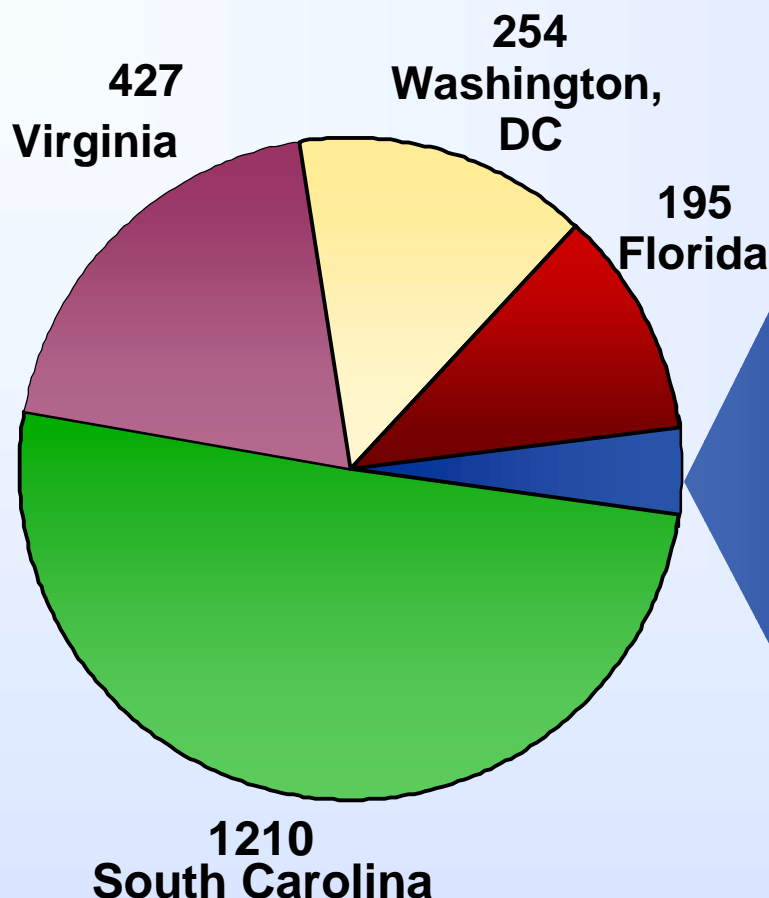
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# Organization





# Employee Statistics



Maryland	25
Texas	16
N. Carolina	9
Rhode Island	9
California	10
Maine	2
Georgia	2
Washington	2
Louisiana	2
Mississippi	1
N. Dakota	1
Oklahoma	1
Pennsylvania	1

## Overseas

Germany	26
Spain	1
Italy	6
U.K.	3
Bahrain	1
Switzerland	1

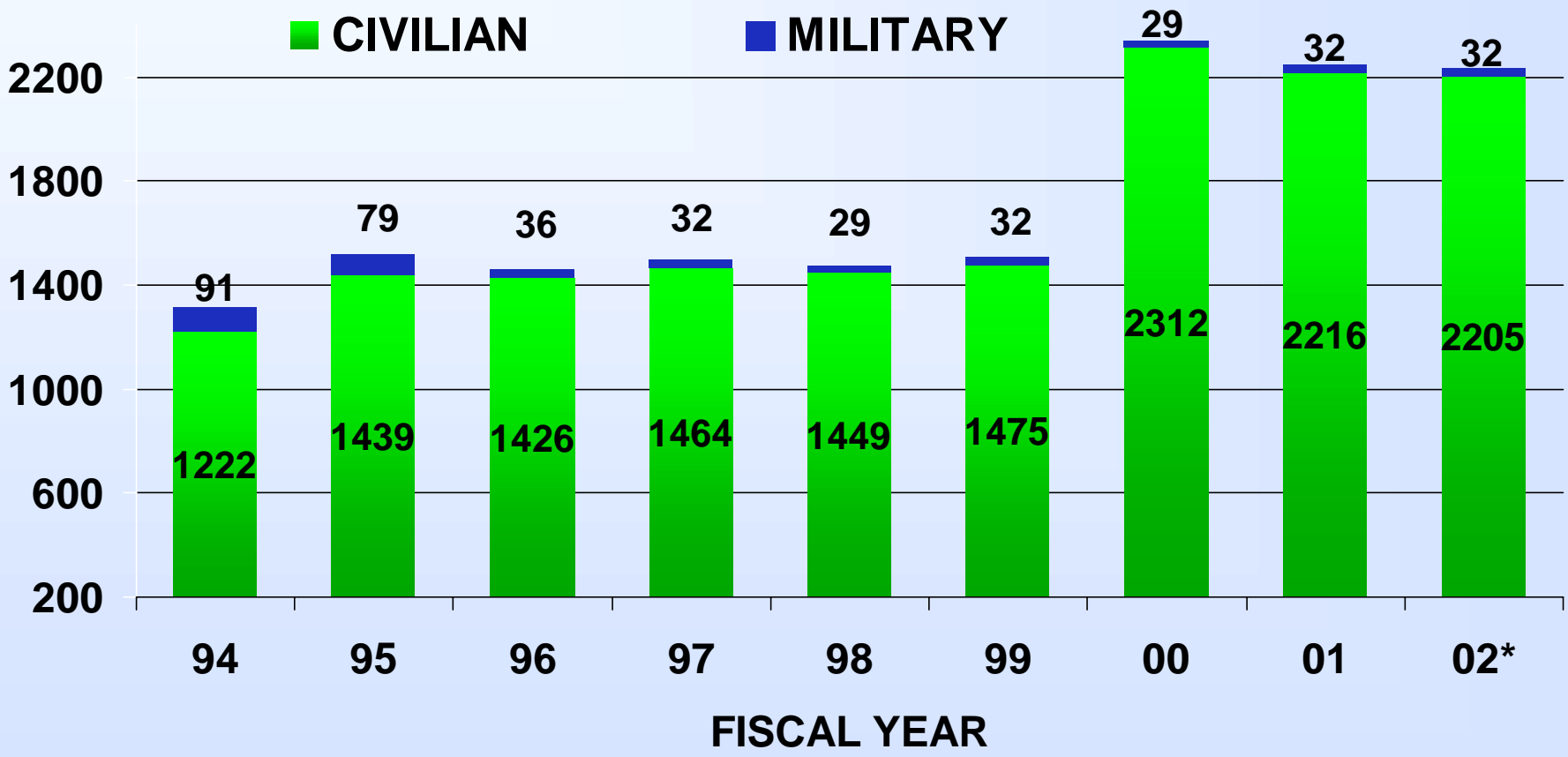
Employees: 2205 (Federal Civil Service)  
                   32 (Military)





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# End Strength





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31 January 2002

# Partnerships with the Community

- Member of Trident Chamber of Commerce
- Annually co-sponsor AFCEA's Math, Science & Technology (MaST) Program
- Berkeley County School District Volunteer Service Award – 2001
- Southeast Region Special Achievement Award (Gregg Middle School Mentoring Program) - 2001
- Participate in Berkeley and Dorchester County's Educators in Industry Program
- Participate in Middle & High School Career & Science Fairs
- Garrett Academy Science and Math Mentoring Program
- Business Education Partnership with Hanahan Middle School
- SC State Board of Education certificate for Exemplary Volunteer Service



Computers for School Program



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Ground Hog Job  
Shadow Day





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# Recruitment/New Hires

- **Recruitment**

- 45 Hires in 2001 (Engineers and Scientists)

- **Student Career Experience Program (CY 2001 Co-ops )**

- 47 Students currently participating

- **Student Temporary Employment Program (CY 2002)**

- 15 Students currently participating

- **Recruiting Trips Planned (CY 2002)**

*Clemson University  
College of Charleston  
Florida A & M  
Florida State  
Georgia Institute of Technology  
George Mason University  
George Washington University  
North Carolina State University  
North Carolina Agricultural  
& Technical State University*

*Old Dominion University  
The Citadel  
Trident Technical College (2 plus 2)  
University of Central Florida  
University of Florida  
University of South Florida  
University of Maryland  
University of South Carolina  
Virginia Polytechnic Institute*



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# **Our Commitment**

***The Satisfaction of Our Customers  
Enhanced Fleet Combat Readiness  
Excellence Through Teamwork  
Leading The 21<sup>st</sup> Century***

***Excellence Through Teamwork***